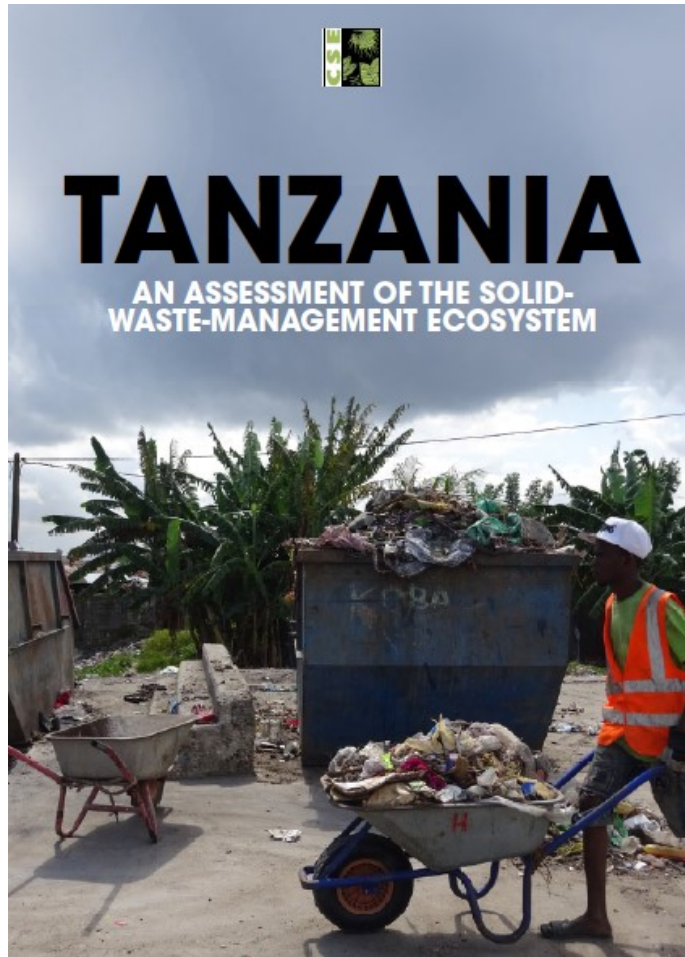


# Key findings of the report



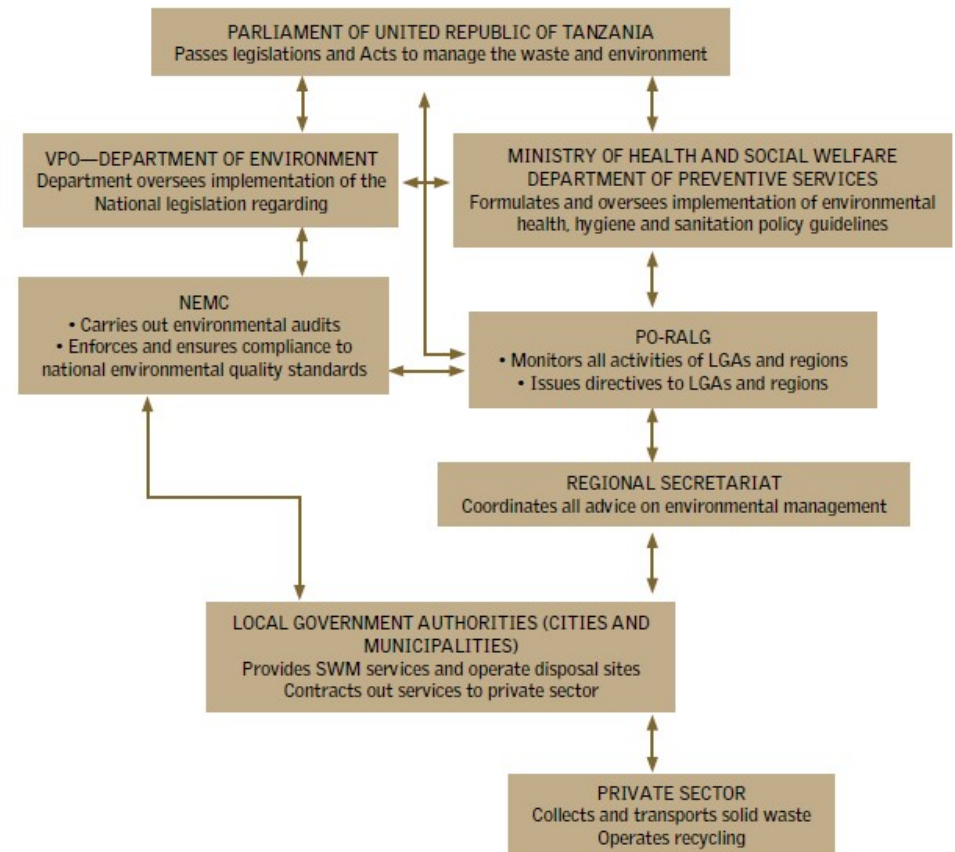
**Siddharth Singh**  
Deputy Programme Manager

Municipal Solid Waste Management Unit

**Centre for Science and Environment**

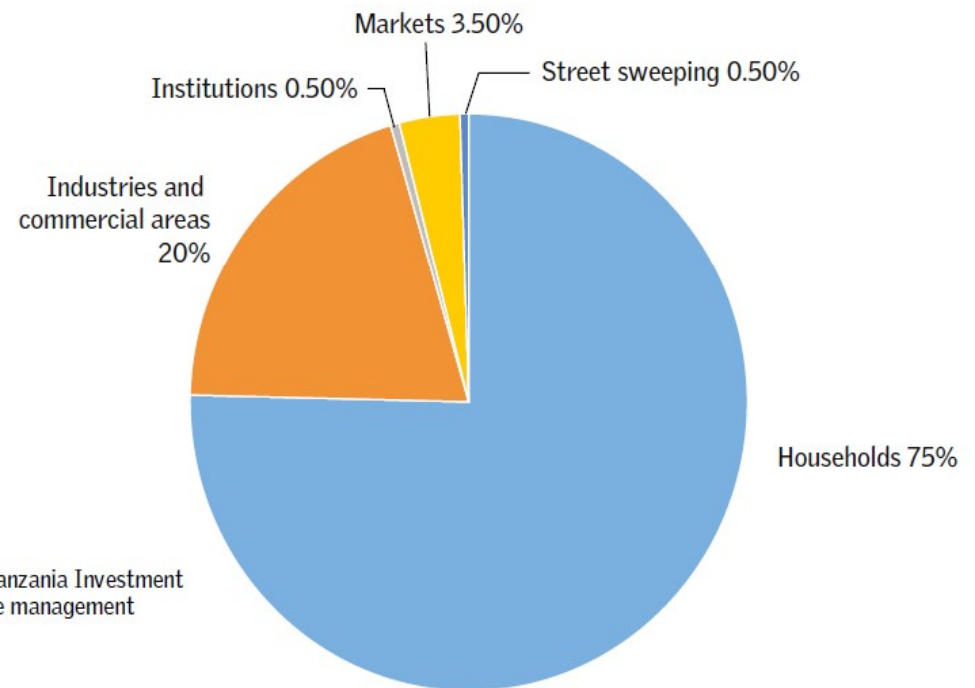
# Environmental Management Act, 2004- Highlights

- Part IX of the Act dedicated to Solid Waste Management (SWM)
- Section 114 to Section 119
  - Section 114- Minimization of solid waste
  - Section 115- SWM in market places, institutions & business areas
  - Section 116- SWM from industries
  - Section 117- SWM from urban & rural areas
  - Section 118- Waste transfer stations
  - Section 119- Final disposal of solid waste



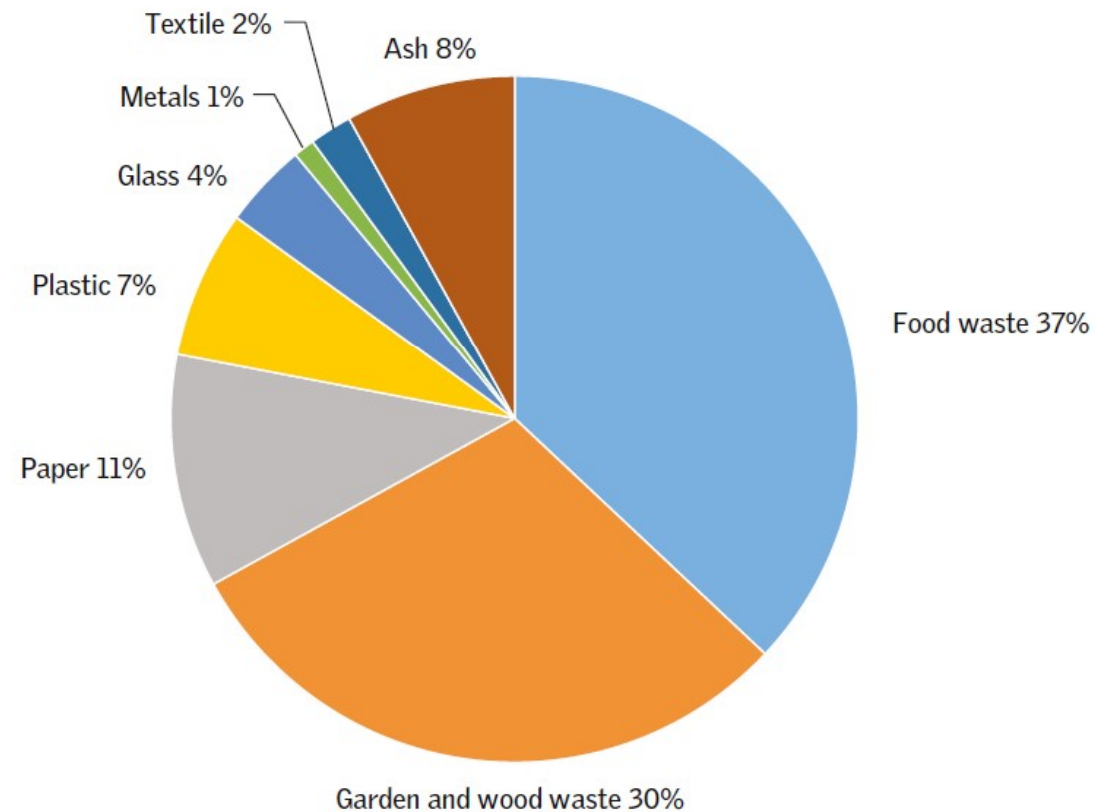
# Solid waste generation & Sources.

- As per the 2012 census- a population of 51 million
- Estimated generation of 12.1 to 17.4 million tonnes per year.
- Generation rate of 0.66-0.95 kg per capita per day



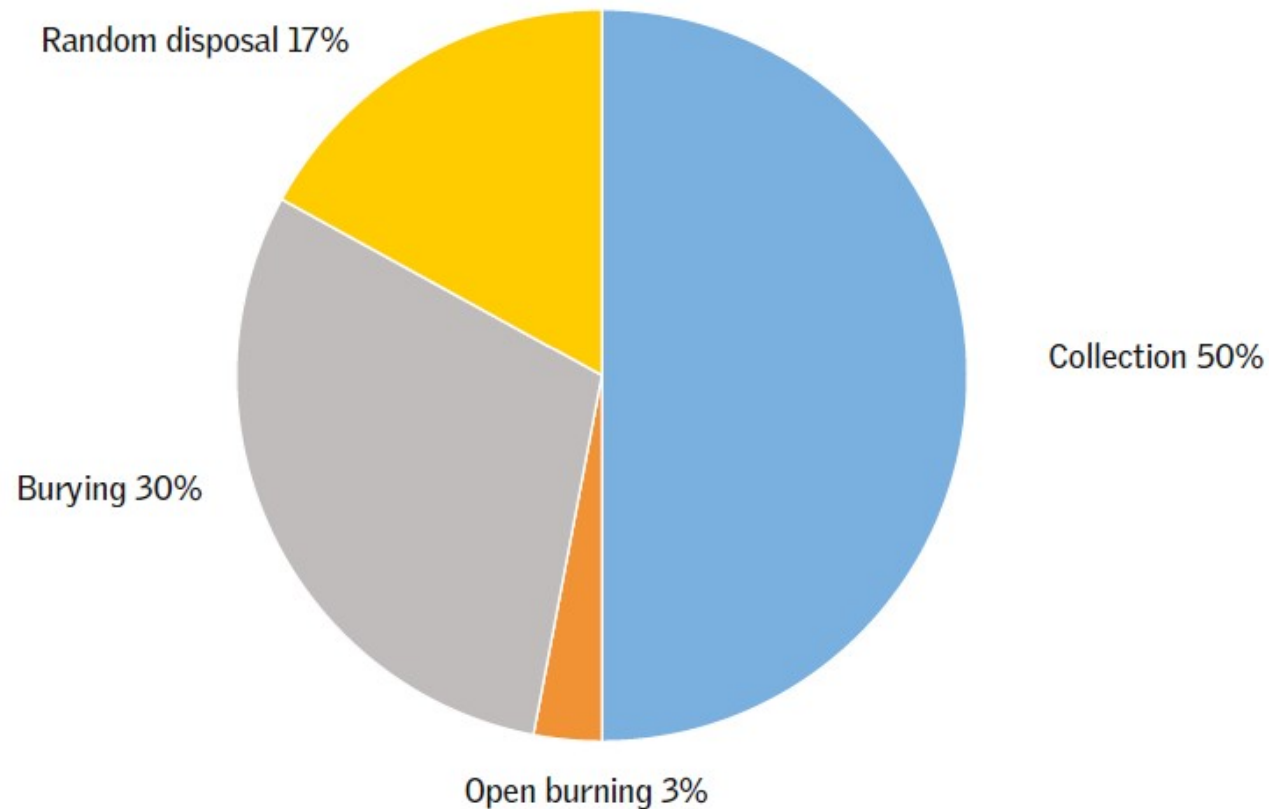
Source: VPO, Tanzania Investment Guide on Waste management

# Composition of solid waste



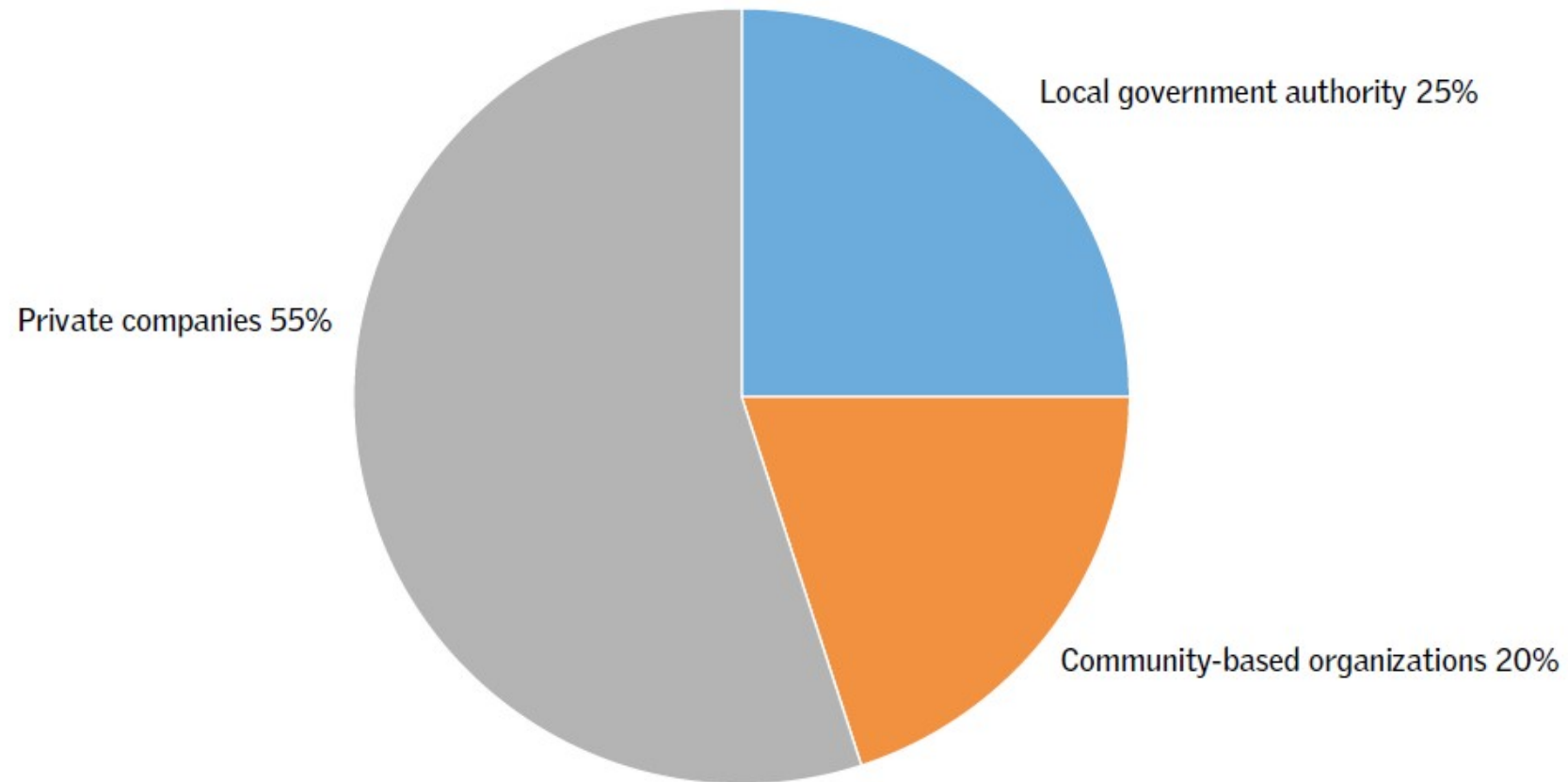
Source: VPO, Tanzania Investment Guide on Waste Management

# Collection & Disposal of mixed waste



Source: VPO, Tanzania Investment Guide on Waste Management

# Key actors in solid waste collection



Source: VPO, Tanzania Investment Guide on Waste Management

# Waste generation in metropolitan areas



Compiled from Solid waste management in urban centres of Tanzania, 2016

City	Waste generation (TPD)- 2012
Dodoma	305
Dar es Salaam	4252
Mwanza	338
Tanga	185
Arusha	550
Mbeya	400

Population based estimation (per capita/day generation)

City	Urban population (As per 2012 census)	Waste generation (TPD)- 2012
Dodoma	333374	316
Dar es Salaam	4364541	4146
Mwanza	1081278	1027
Tanga	449945	427
Arusha	626894	595
Mbeya	920519	874

# Challenges

- Legislative & Regulatory
  - Disconnect between legislations (EMA, 2004) & bye- laws
  - Need for issue based guidelines on solid waste management
- Institutional & Administrative
  - Solid waste management needs to be prioritized
  - Compliance of legislation needs more focus
  - Institutional enforcement needs strengthening
  - Capacity building , monitoring & oversight
- Improved systems to address data insufficiency
  - Need for system to generate, manage, & analyze data around solid waste
  - Scientific method for inventorization & composition studies
- Operational challenges
  - Low focus on source separation
  - Low collection efficiency
  - Less focus on decentralized management
  - Waste management infrastructure



# Recommendations

- Legislative & Regulatory
  - Align bye-laws to EMA, 2004
  - Issue SWM guidelines to municipal councils
  - Introduce concept of Extended producer responsibility
- Institutional & Administrative
  - Result oriented funding
  - Capacity building of all stakeholders
  - Involve technical support organizations/ Think tanks
- Systems development to tackle data insufficiency
  - Continual waste inventORIZATION & composition studies
  - Mechanism for data collection and validation
- Operational opportunities
  - Waste Minimization
  - Source separation
  - Efficient collection
  - Choice of technology- emphasize decentralization
  - Stakeholder participation
  - Monitoring & Evaluation

Thank you!